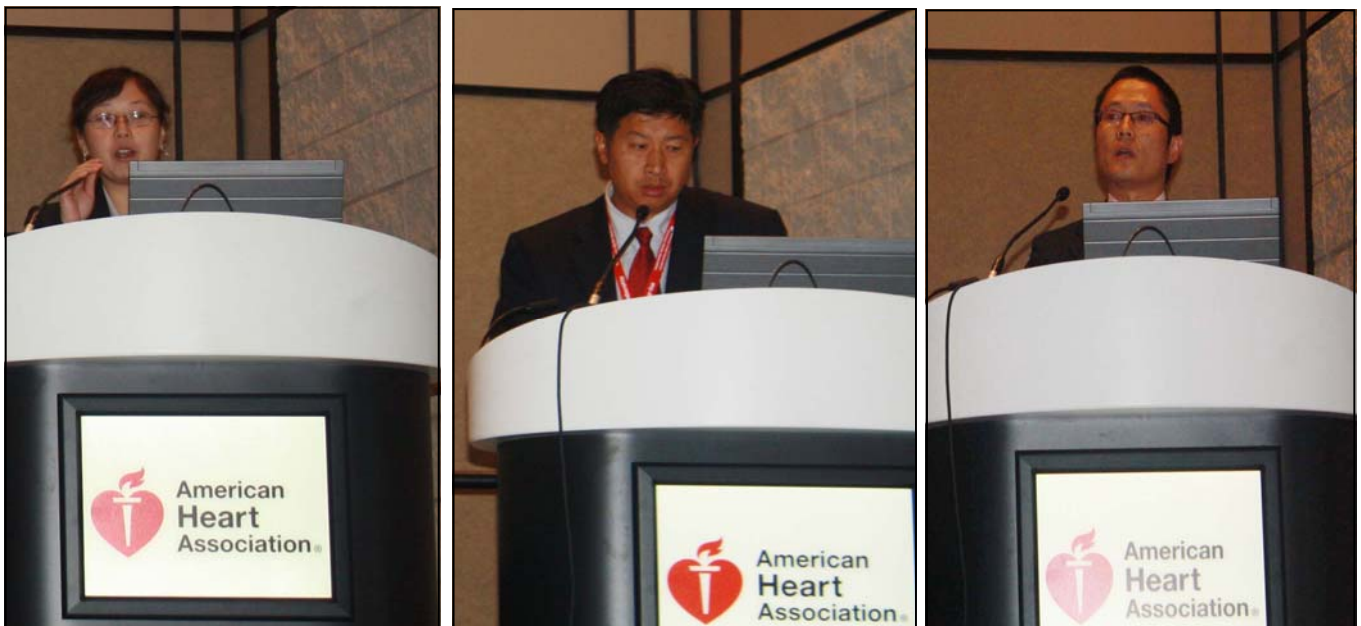


American Heart Association Scientific Sessions 2011



CCRAM Researchers presented at the American Heart Association Meeting in Orlando (see inside for details). Picture: Yinan Hua (left) and Alex Xu (right) presented their research papers; Dr. Jun Ren (center) chaired a session.

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Research Papers Published in 2011

Articles published by CCRAM Researcher's in 2012 have appeared in high-impact journals including *Eur Heart J* (IF 10.05) *Pharmacol Therap* (IF 8.9) *Antioxidant Redox Signal* (IF 8.2) and *Hypertension* (IF 6.9)

1. Ceylan-Isik AF, Li Q, Ren J: Insulin-like growth factor I (IGF-1) deficiency ameliorates sex difference in cardiac contractile function and intracellular Ca(2+) homeostasis. *Toxicol Lett* 206:130-138, 2011
2. Dong F, Skinner DC, Wu TJ, Ren J: The heart: a novel gonadotrophin-releasing hormone target. *J Neuroendocrinol* 23:456-463, 2011
3. Du M, Zhao JX, Yan X, Huang Y, Nicodemus LV, Yue W, McCormick RJ, Zhu MJ: Fetal muscle development, mesenchymal multipotent cell differentiation, and associated signaling pathways. *J Anim Sci* 89:583-590, 2011
4. Fan XJ, Yu H, Ren J. Homeostasis and compensatory homeostasis: Bridging Western medicine and Traditional Chinese Medicine. *Curr. Cardiol. Review* 7: 43-46, 2011
5. Fan X, Turdi S, Ford SP, Hua Y, Nijland MJ, Zhu M, Nathanielsz PW, Ren J: Influence of gestational overfeeding on cardiac morphometry and hypertrophic protein markers in fetal sheep. *J Nutr Biochem* 22:30-37, 2011
6. Ge W, Guo R, Ren J: AMP-dependent kinase and autophagic flux are involved in aldehyde dehydrogenase-2-induced protection against cardiac toxicity of ethanol. *Free Radic Biol Med* 51:1736-1748, 2011
7. Ge W, Li Q, Turdi S, Wang XM, Ren J: Deficiency of insulin-like growth factor 1 reduces vulnerability to chronic alcohol intake-induced cardiomyocyte mechanical dysfunction: role of AMPK. *J Cell Mol Med* 15:1737-1746, 2011
8. Hu N, Guo R, Han X, Zhu B, Ren J: Cardiac-specific overexpression of metallothionein rescues nicotine-induced cardiac contractile dysfunction and interstitial fibrosis. *Toxicol Lett* 202:8-14, 2011
9. Hua Y*, Zhang Y*, Ceylan-Isik AF, Wold LE, Nunn JM, Ren J: Chronic Akt activation accentuates aging-induced cardiac hypertrophy and myocardial contractile dysfunction: role of autophagy. *Basic Res Cardiol* 106:1173-1191, 2011 (*Equal first authorship)
10. Lee KN, Jackson KW, Christiansen VJ, Dolence EK, McKee PA: Enhancement of fibrinolysis by inhibiting enzymatic cleavage of precursive a2-antiplasmin. *J Thromb Haemostasis* 9: 987-996, 2011
11. Li DL, Liu JJ, Liu BH, Hu H, Sun L, Miao Y, Xu HF, Yu XJ, Ma X, Ren J, Zang WJ: Acetylcholine inhibits hypoxia-induced tumor necrosis factor-alpha production via regulation of MAPKs phosphorylation in cardiomyocytes. *J Cell Physiol* 226:1052-1059, 2011
12. Long NM, Ford SP, Nathanielsz PW: Maternal obesity eliminates the neonatal lamb plasma leptin peak. *J Physiol* 589:1455-1462, 2011
13. Ma H, Guo R, Yu L, Zhang Y, Ren J: Aldehyde dehydrogenase 2 (ALDH2) rescues myocardial ischaemia/reperfusion injury: role of autophagy paradox and toxic aldehyde. *Eur Heart J* 32:1025-1038, 2011
14. Ma Y, Zhu MJ, Uthlaut AB, Nijland MJ, Nathanielsz PW, Hess BW, Ford SP: Upregulation of growth signaling and nutrient transporters in cotyledons of early to mid-gestational nutrient restricted ewes. *Placenta* 32:255-263, 2011
15. Obulkasim M, Turdi A, Amat N, Haxim M, Eziz R, Haji H, Li L, Chen X, Upur H, Ren J: Neuroendocrine-immune disorder in type 2 diabetic patients with retinopathy. *Clin Exp Pharmacol Physiol* 38:229-232, 2011
16. Roe ND, Ren J: Akt2 knockout mitigates chronic iNOS inhibition-induced cardiomyocyte atrophy and contractile dysfunction despite persistent insulin resistance. *Toxicol Lett* 207:222-231, 2011

Research Papers Published in 2011

17. Roe ND, Thomas DP, Ren J: Inhibition of NADPH oxidase alleviates experimental diabetes-induced myocardial contractile dysfunction. *Diabetes Obes Metab* 13:465-473, 2011
18. Si R, Tao L, Zhang HF, Yu QJ, Zhang R, Lv AL, Zhou N, Cao F, Guo WY, Ren J, Wang HC, Gao F: Survivin: a novel player in insulin cardioprotection against myocardial ischemia/reperfusion injury. *J Mol Cell Cardiol* 50:16-24, 2011
19. Sun L, Li DL, Zhao M, He X, Yu XJ, Miao Y, Wang H, Ren J, Zang WJ: The role of muscarinic receptors in the beneficial effects of adenosine against myocardial reperfusion injury in rats. *PLoS One* 6:e25618, 2011
20. Wang T, Wang L, Yi J, Yao Q, Chen JH, Yuan SF, Zhang JL, Yun J, Han ZH, Ren J, Ling R: Application of colour Doppler in encircling constriction of the superficial femoral vein in primary deep venous insufficiency of the lower limbs. *Clin Exp Pharmacol Physiol* 38:830-833, 2011
21. Yan X, Huang Y, Wang H, Du M, Hess BW, Ford SP, Nathanielsz PW, Zhu MJ: Maternal obesity induces sustained inflammation in both fetal and offspring large intestine of sheep. *Inflamm Bowel Dis* 17:1513-1522, 2011
22. Yan X, Huang Y, Zhao JX, Long NM, Uthlaut AB, Zhu MJ, Ford SP, Nathanielsz PW, Du M: Maternal obesity-impaired insulin signaling in sheep and induced lipid accumulation and fibrosis in skeletal muscle of offspring. *Biol Reprod* 85:172-178, 2011
23. Zhang L, Long NM, Hein SM, Ma Y, Nathanielsz PW, Ford SP: Maternal obesity in ewes results in reduced fetal pancreatic beta-cell numbers in late gestation and decreased circulating insulin concentration at term. *Domest Anim Endocrinol* 40:30-39, 2011
24. Zhang Y, Ren J: Thapsigargin triggers cardiac contractile dysfunction via NADPH oxidase-mediated mitochondrial dysfunction: Role of Akt dephosphorylation. *Free Radic Biol Med* 51:2172-2184, 2011
25. Zhang Y, Ren J: ALDH2 in alcoholic heart diseases: molecular mechanism and clinical implications. *Pharmacol Ther* 132:86-95, 2011
26. Zhang Y, Ren J: Role of cardiac steatosis and lipotoxicity in obesity cardiomyopathy. *Hypertension* 57:148-150, 2011
27. Zhang Y, Xia Z, La Cour KH, Ren J: Activation of Akt rescues endoplasmic reticulum stress-impaired murine cardiac contractile function via glycogen synthase kinase-3beta-mediated suppression of mitochondrial permeation pore opening. *Antioxidant Redox Signal* 15:2407-2424, 2011
28. Zhao JX, Hu J, Zhu MJ, Du M: Trenbolone enhances myogenic differentiation by enhancing beta-catenin signaling in muscle-derived stem cells of cattle. *Domest Anim Endocrinol* 40:222-229, 2011
29. Zhao JX, Yue WF, Zhu MJ, Du M: AMP-activated protein kinase regulates beta-catenin transcription via histone deacetylase 5. *J Biol Chem* 286:16426-16434, 2011

A paper by Zhang and coworkers accepted for publication in the journal *Hypertension* has been highlighted by a special editorial Commentary (*Hypertension*, epub Jan 23)

Research Papers in Press/Print 2012

1. Awuti G, Younusi K, Li LL, Wupuer H, Ren J. Epidemiological survey on the prevalence of periodontitis and diabetes mellitus in Uyghur adults from rural Hotan area in Xinjiang. *Exp. Diabetes Res.* In press. (Editor= Y. Zhang)
2. Brown, KD, Waggy ED, Peterson M, Du M, Sreejayan N, Li J, Thomas DO Gender disparity in cardiac AMPK activation in response to exhaustive exercise” *Med. Sci. Sports Exerc.* 43: Sxxx, 2012.
3. Chen J, Wu S, Ren J. Ultrasonographic measurement of median nerve cross-sectional area reference values in a healthy Han population from Guiyang, China. *Neural Regeneration Res.* in press.
4. Ge W, Ren J: mTOR-STAT3-notch signaling contributes to ALDH2-induced protection against cardiac contractile dysfunction and autophagy under alcoholism. *J Cell Mol Med*, 2011
5. Guo R, Hu N, Kandadi MR, Ren J. Facilitated ethanol metabolism promotes cardiomyocyte contractile dysfunction through autophagy in murine hearts. *Autophagy* in press.
6. Han XF, Turdi S, Hu N, Guo R, Zhang Y, Ren J. Influence of long-term caloric restriction on myocardial and cardiomyocyte contractile function and autophagy in mice. *J. Nutr. Biochem.* in press.
7. Hua Y, Clark S, Ren J, Sreejayan N. Molecular mechanisms of chromium in alleviating insulin resistance. *J. Nutr. Biochem.* in press.
8. Hua Y, Zhang Y, Ren J. IGF-1 Deficiency Resists Cardiac Hypertrophy and Myocardial Contractile Dysfunction: Role of microRNA-1 and microRNA-133a. *J. Cell. Mol. Med.* 16: 83-95, 2012,
9. Klionsky DJ, ...Ren J...Zorzano A. Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. *Autophagy* in press. IF = 6.643 (*Dr. Ren is author # 872 of the total author count of >1000*).
10. Li LL, Hua Y, Ren J. Short chain fatty acid propionate alleviates Akt2 knockout-induced myocardial contractile dysfunction. *Exp. Diabetes Res.* In press. (Editor = Y. Zhang)
11. LL*, Hua Y*, Dong ML*, Li Q, Yuan M, Jones KR, Ren J. Short-term lenalidomide (Revlimid) administration ameliorates cardiomyocyte contractile dysfunction in ob/ob obese mice. *Obesity* in press (*equal first authorship).
12. Long NM, Rule DC, Zhu MJ, Nathanielsz PW, Ford SP. Maternal obesity upregulates fatty acid and glucose transporters and increases expression of enzymes mediating fatty acid biosynthesis in fetal adipose tissue depots. *J Anim Sci.* 2012 Jan 20.
13. Long NM, Nathanielsz PW, Ford SP. The impact of maternal overnutrition and obesity on hypothalamic-pituitary-adrenal axis response of offspring to stress. *Domest Anim Endocrinol.* [Epub ahead of print, Jan 2012]
14. Long NM, Tousley CB, Underwood KR, Paisley SI, Means WJ, Hess BW, Du M, Ford SP. Effects of early- to mid-gestational undernutrition with or without protein supplementation on offspring growth, carcass characteristics, and adipocyte size in beef cattle. *J Anim Sci.* 90:197-206, 2012.
15. Palanichamy K, Sreejayan N, Ontko AC. Overcoming cisplatin resistance using gold(III) mimics: anticancer activity of novel gold(III) polypyridyl complexes. *J Inorg Biochem.* 2012 Jan;106(1):32-42.
16. Roe ND, Ren J. NO synthase uncoupling: A therapeutic target in cardiovascular diseases. *Vasc. Pharmacol.* in press
17. Sun AJ, Ren J. Estrogen replacement therapy and cardiac function under metabolic syndrome: A treacherous art. *Hypertension*, [Epub ahead of print, Jan 2012]
18. Turdi S, Yuan M, Leedy GM, Wu Z, Ren J. Chronic social stress induces cardiomyocyte contractile dysfunction and intracellular Ca²⁺ derangement in rats. *Physiol. Behavior* 105: 498-509, 2012.
19. Xia Z, Zhang Y, Ren J. Role of endoplasmic reticulum stress in obesity. *Acta Neuropharmacol.* in press.
20. Wang H, Zhao J, Hu N, Ren J, Du M, Zhu MJ. Side-stream smoking reduced inflammation and increased expression of tight junction proteins in the intestine. *World J Gastroenterol*, in press
21. Xu X, Ren J. Unmasking the Janus faces of autophagy in obesity-associated insulin resistance and cardiac dysfunction. *Clin. Exp. Pharmacol. Physiol.* 39:200-208, 2012
22. Zhang Y,* Li LL,* Hua Y, Nunn JM, Dong F, Yanagisawa M, Ren J. Cardiac-specific knockout of ETA receptor mitigates low ambient temperature-induced myocardial hypertrophy and contractile dysfunction. *J. Mol. Cell. Biol.* in press. (*equal first authorship)
23. Zhang Y*, Yuan M*, Bradley KM, Dong F, Anversa P, Ren J. IGF-1 alleviates high fat diet-induced myocardial contractile dysfunction: Role of insulin signaling and mitochondrial Function. *Hypertension.* [Epub, Jan 2012]
24. Zhang XC, Ren J. Molecular mechanism of methamphetamine-induced neurotoxicity: Musing on the not so funny side. *Curr. Trend Neurol.* in press
25. Zhang Y, Ren J. The obesity paradox and health: Perception versus knowledge (editorial commentary). *Clin. Exp. Pharmacol. Physiol.* 39: 158-160, 2012

Research Papers Under Review/in Revision

1. Ceylan-Isik AF, Dong F, Turdi S, Yanagisawa M, Ren J. Cardiomyocyte-specific deletion of ETA rescues aging-associated cardiac hypertrophy and contractile dysfunction: Role of autophagy. *Aging Cell*, in revision.
2. Ceylan-Isik AF, Zhao H, Ren J, Sreejayan N, Cardiomyocyte-specific knockout of endothelin receptor 1A attenuates high fat diet-induced cardiac geometric and contractile dysfunction. *Diabetes* in revision.
3. Dong M, Ren J. Role of leptin in heart diseases associated with metabolic syndrome. *Curr. Pharmaceutical Design* invited review
4. Ge W, Wang XM, Babcock SA, Ren J. Mitochondrial aldehyde dehydrogenase protects against doxorubicin cardiotoxicity through mitochondrial stabilization and the Sirt1-TRPV1 pathway. *J. Mol. Cell. Biol.* In review.
5. Ge W, Wang XM, George LA, Ford SP, Ren J. Maternal nutrient restriction predisposes ventricular remodeling in adult sheep offspring. *J. Nutr. Biochem.* in revision.
6. Guo R, Ren J. Aldehyde Dehydrogenase-2 (ALDH2) Ameliorates Chronic Alcohol Ingestion-Induced Hepatic Steatosis and Inflammation. *Hepatology* in review
7. Guo R, Ren J. Deficiency in AMPK Attenuates Ethanol-Induced Cardiac Contractile Dysfunction through Inhibition of Autophagy. *Cardiovasc. Res.* under revision
8. Hu N, Han X, Zhang Y, Ren J. Cardiac-specific overexpression of metallothionein rescues against cigarette smoking exposure-induced myocardial contractile and mitochondrial damage in mice. *J Cell. Mol. Med.* in revision.
9. Hua Y, Zhang Y, Dolence J, Shi GP, Ren J, Sreejayan N. Cathepsin-K knockout mitigates high fat diet-induced cardiac hypertrophy and contractile dysfunction. *J Am Coll Cardiol.* in revision.
10. Zhang Y, Babcock SA, Maris JR, Ren J. ALDH2 protects against streptozotocin-induced diabetic cardiomyopathy: Role of GSK3 β and mitochondrial function. *BMC Med.* under revision
11. Kandadi MR, Frankel AE, Ren J. Toll-like receptor 4 knockout rescues against anthrax lethal toxin-induced cardiac contractile dysfunction: Role of autophagy. *Br J Pharmacol.* in revision.
12. Kandadi MR, Hu N, Ren J. AMP-activated protein kinase – ULK1-mediated autophagy is responsible for acute alcohol exposure-induced cardiac contractile dysfunction. *Autophagy* in review.
13. Kandadi MR, Yu X, Frankel AE, Ren J. Cardiac-specific catalase overexpression rescues anthrax lethal toxin-induced cardiac contractile dysfunction: Role of autophagy. *J. Mol. Cell. Cardiol.* in revision.
14. Roe ND, Ren J. Oxidative activation of Ca²⁺/calmodulin activated kinase II mediates ER stress-induced cardiac dysfunction and apoptosis. *Circ. Res.* in review
15. Sreejayan N, Ren J. Autophagy, reactive oxygen species and cardiovascular aging: Lesson learned from rapamycin. *Cell Cycle* invited review.
16. Turdi S*, Han X*, Huff AF, Roe ND, Hu N, Gao F, Ren J. Cardiac-specific overexpression of catalase attenuates LPS-induced myocardial suppression: Role of autophagy. *Free Rad. Biol. Med.* in review.
17. Turdi S, Ge W, Hu N, Bradley KM, Ren J. Interaction between maternal and postnatal high fat diet leads to a greater risk of myocardial dysfunction in offspring via enhanced lipotoxicity, IRS-1 serine phosphorylation and mitochondrial defects. *Diabetologia* in revision.
18. Turdi S, Ren J. Tauroursodeoxycholic acid mitigates high fat diet-induced cardiomyocyte contractile and intracellular Ca²⁺ anomalies. *PLoS ONE* in review.
19. Wang L, Cao S, Li J, Yang L, Wan Y, Liu Y, Ren J, Ma Q, Xing H, Li D, Tian D, Yang J. Transcatheter closure of congenital perimembranous ventricular septal defect in children using symmetric occluders: An 8-year multi-institutional experience. *Heart* in review.
20. Wang L, Li LL, Ran XJ, Zhang MF, Tao YC, Luo X, Wang Y, Mao XM, Ren J. LPS reduce adipogenesis in 3T3-L1 adipocytes through inhibition of PPAR γ and AMPK expression. *Clin. Exp. Pharm. Physiol.* in review.
21. Xu X*, Hua Y*, Sreejayan N, Zhang Y, Ren J. Reactivation of autophagic flux by Akt2 knockout preserves cardiac function in high fat diet-induced obesity. (* equal first authorship) *Circulation* in review
22. Xu X Ren J. Unmasking the Janus faces of autophagy in obesity-associated insulin resistance and cardiac dysfunction. *Clin. Exp. Pharmacol. Physiol.* in press
23. Zhang Y*, Hua Y*, Hu N, Richmond KL, Dong F, Ren J. Cardiac overexpression of metallothionein rescues cold exposure-induced myocardial contractile dysfunction through attenuation of cardiac fibrosis despite of cardiomyocyte mechanical anomalies. *Free Rad. Biol. Med.* under revision (equal first authorship).
24. Zhang Y, Ren J. Maternal diet and cardiac lipotoxicity: focus on fetal programming. *J. Mol. Cell. Cardiol.* invited review
25. Zhang Y, Mi SL, Doser TA, Li SY, Ge W, Babcock SA, Sun AJ, Ge JB, Ren J. Overexpression of ALDH2 accentuates aging-induced cardiac remodeling and myocardial contractile dysfunction through suppression of autophagy.

Meetings /Presentations/Invited Talks

1. Ceylan-Isik AF, Kandadi MR, Ren J, Sreejayan, N. Apelin alleviates high fat diet-induced cardiac remodeling and myocardial contractile dysfunction: Role of miRNA-133a. *FASEB J.* 25:1085.2, 2011. EB meeting Presentation, Washington DC, April 2011.
2. Ceylan-Isik AF, Kandadi MR, Ren J, Sreejayan N, Apelin alleviates high fat diet-induced cardiac remodeling and myocyte contractile dysfunction: Role of miRNA-133a. CHS Grand Round, April 1, 2011.
3. Ceylan-Isik AF, Zhao H, Ren J, Sreejayan N, Cardiac specific deletion of endothelin-1 receptor A rescues the heart from high-fat diet-induced cardiac dysfunction via regulating autophagy. *Circulation* 124:A13865, 2011. AHA meeting Presentation, Orlando, November 2011.
4. Guo R, Ren J. Deficiency in AMP-activated protein kinase attenuates acute ethanol-induced cardiac contractile dysfunction: Role of autophagy. Second Biennial Western Region IDEa Scientific Conference, (featured speaker series), June 6-8, 2011, Reno, NV.
5. Hua Y, Dolence J, Ren J, Shi GP, Sreejayan N. Cathepsin K knockout mitigates high fat diet-induced cardiac dysfunction. *Circulation* 124:A13630, 2011. AHA meeting Presentation, Orlando, November 2011.
6. Hua Y, Ren J, Sreejayan N. Cathepsin-K knockout mitigates high fat diet-induced cardiac dysfunction. CHS Grand Round, April 1, 2011.
7. Kandadi MR, Frankel AE, Ren J. Toll like receptor-4 deficiency rescues anthrax lethal toxin-elicited cardiac contractile dysfunction: Role of autophagy. *FASEB J.* 25:642.6, 2011. EB meeting Presentation, Washington DC, April 2011.
8. Kandadi MR, Yu X, Ren J. Toll like receptor-4 deficiency rescues anthrax lethal toxin-elicited cardiac contractile dysfunction: Role of autophagy. CHS Grand Round, April 1, 2011.
9. Sreejayan N, Hua Y, Ren J. Cathepsin-K knockout attenuates abdominal aortic constriction-induced cardiac hypertrophy. CHS Grand Round, April 1, 2011.
10. Pacheco B, Xu X, Ren J. The role of macrophage migration inhibition factor (MIF) in cardiac hypertrophy. UW Undergraduate Research Day (oral presentation guided by Alex Xu), May 2011,
11. Ren J. "Autophagy and Health in Obesity", Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing, China, December 2011. (News release in Chinese http://www.bjhmoh.cn/templates/T_new_second/index.aspx?nodeid=182&page=ContentPage&contentid=44920)
12. Ren J. "Autophagy in obesity and cardiovascular diseases", Dean's Forum, Beijing University School of Medicine, Beijing, China, December 2011.
13. Ren J. "Cardiac Pathology & Pathogenesis, Cell Death and Mitochondria", Session Chair and Opening Ceremony/ Keynote speech Chair, BIT's 3rd Annual International Conference of Cardiology, Beijing, China, December 2011.
14. Ren J. "ALDH2 in cardiovascular diseases: a double-edged sword", Chinese Academy of Medical
15. Sciences and Peking Union Medical College, Beijing, China, December 2011. Ren J. "ALDH2 in cardiac diseases", Department of Cardiology, the Fourth Military Medical University, Xi'an, China, December 2011.
16. Ren J. "Cardiac health in obesity", The Fourth Military Medical University, Xi'an, China, June 2011.
17. Ren J. "Cardiometabolic syndrome", The 10th Renmin Hospital, Shanghai, China, May 2011.
18. Ren J. "Facial flash gene in obesity and aging – the physiological perspective)", FMMU, Xi'an, China, Dec 2011. (News: <http://jcb.fmmu.edu.cn/nry.jsp?urltype=news.NewsContentUrl&wbnewsid=107674&wbtreeid=2239>)
19. Ren J. "Mitochondrial aldehyde dehydrogenase (ALDH2) in obesity and cardiovascular diseases", Xi'an Jiaotong University, Xi'an, China, December 2011.
20. Ren J. "Mitochondrial aldehyde dehydrogenase (ALDH2) protects against diabetic cardiomyopathy: Role of GSK3 β and mitochondrial function", BIT's 3rd Annual International Congress of Cardiology,
21. Beijing, China, December 2011. Ren J. "Mitochondrial aldehyde dehydrogenase in cardiovascular diseases", Chinese Academy of Medical Sciences and Fuwai Cardiovascular Hospital, Beijing, China, December 2011.
22. Ren J. "Role of autophagy in obesity-associated heart diseases", Beijing Hospital, Beijing, China, December 2011.
23. Ren J. "Role of oxidative stress in cardiac aging", Target Meeting on "Molecular targets and mechanism of aging" Webinar, delivered in US on June 25, 2011 (session chair).
24. Ren J. "The role of ALDH2 in the regulation of cardiovascular diseases", National Science Foundation of China (NSFC) Shuangqing Forum on Vascular Function, Regulation and Protection, Beijing, China, December 2011.
25. Ren J. "Tips on biomedical scientific writing and publication", Zhongshan Hospital, Fudan University, Shanghai, China, May 2011.

Meetings and Presentations

26. Ren J. "Cardiac health in obesity", The Fourth Military Medical University, Xi'an, China, June 2011.
27. Ren J. "Cardiometabolic syndrome", The 10th Renmin Hospital, Shanghai, China, May 2011.
28. Ren J. "Cardioprotection of ALDH2 in cardiac pathologies", The 5th Oriental Congress of Cardiology, Shanghai, China May 2011.
29. Ren J. "Tips on biomedical scientific writing and publication", Zhongshan Hospital, Fudan University, Shanghai, China, May 2011.
30. Richmond KL, Ren J, Zhang Y. Influence of CD74 Knockout on Obesity-Induced Cardiac Hypertrophy and Contractile Dysfunction: Role of Autophagy. UW Undergraduate Research Day (oral presentation guided by Megan Zhang), May 2011,
31. Roe ND, Ren J. iNOS inhibition causes myocardial abnormalities through an AKT dependent pathway. FASEB J. 25:644.24, 2011. EB meeting Presentation, Washington DC, April 2011.
32. Roe ND, Ren J. iNOS inhibition causes myocardial abnormalities through an AKT dependent pathway. CHS Grand Round, April 1, 2011.
33. Roe ND, Ren J. Oxidative activation of Ca²⁺/Calmodulin activated kinase II mediates ER stress induced cardiac dysfunction and apoptosis. Circulation 124:A14287, 2011. AHA meeting Presentation, Orlando, November 2011.
34. Turdi S, Ge W, Hu N, Bradley KM, Ren J. Maternal and postnatal high-fat diet interaction leads to greater risk of myocardial dysfunction in offspring via obesity-induced lipotoxicity, IRS-1 serine phosphorylation and mitochondrial defects. Circulation 124:A18063, 2011. AHA meeting Presentation, Orlando, November 2011.
35. Xu X, Hua Y, Zhang Y, Ren J. Akt2 knockout alleviates high fat diet-induced cardiac dysfunction. FASEB J. 25: 644.23, 2011. EB meeting Presentation, Washington DC, April 2011.
36. Xu X, Hua Y, Zhang Y, Ren J. Reactivation of autophagic flux by Akt2 knockout is beneficial for cardiac function in high fat diet-induced obesity. Circulation 124:A13634, 2011. AHA meeting Presentation, Orlando, Nov 2011.
37. Xu X, Zhang Y, Ren J. TRAF6 mediates the cardioprotective effect of lipopolysaccharide against insulin resistance in an Akt2 knockout murine model. CHS Grand Round, April 1, 2011.
38. Xu X, Zhang Y, Ren J. TRAF6 mediates the cardioprotective effect of lipopolysaccharide against insulin resistance in an Akt2 knockout murine model. AHA Winter Conference, Keystone, CO February 2011.
39. Xu X. "Role of autophagy in high fat diet-induced obesity and cardiac dysfunction" Suchow University Medical School, Suzhou, China, December 2011 invited talk.
40. Yu X, Kandadi MR, Ren J. Hyperleptinemia induced cardiac contractile dysfunction: Role of autophagy. UW Undergraduate Research Day (oral presentation guided by Machender Kandadi), May, 2011.
41. Zhang Y, Babcock SA, Li SY, Ren J. Advanced glycation end products disrupts calcium homeostasis leading to ER stress and cardiac contractile dysfunction in diabetes. Circulation 124:A16285, 2011. AHA meeting Presentation, Orlando, November 2011.
42. Zhang Y, Ren J. Overexpression of aldehyde dehydrogenase 2 alleviates aging-induced cardiac remodeling and myocardial contractile dysfunction. CHS Grand Round, April 1, 2011.
43. Zhang Y, Xia Z, Richmond KL, Bucala R, Ren J. CD74 knockout rescues against obesity-induced cardiac hypertrophy and contractile dysfunction: Role of autophagy and ER stress. Circulation 124:A15987, 2011. AHA meeting Presentation, Orlando, November 2011.
44. Zhang Y, Xia Z, Richmond KL, Bucala R, Ren J. CD74 Knockout Rescues against Obesity-Induced Cardiac Hypertrophy and Contractile Dysfunction: Role of Autophagy and ER Stress Second Biennial Western Region IDeA Scientific Conference, (featured speaker series), June 6-8, 2011, Reno, NV.
45. Zhang Y,* Li LL,* Hua Y, Nunn JM, Dong F, Yanagisawa M, Ren J. Cardiomyocyte-specific knockout of endothelin A receptor mitigates cold exposure-induced myocardial hypertrophy and contractile dysfunction: Role of TRPV1 and mitochondrial oxidative damage. AHA Winter Conference, Keystone, CO February 2011.
46. Zhang Y. Autophagy, obesity and heart disease. Second Biennial Western Region IDeA Scientific Conference, (featured speaker series), June 6-8, 2011, Reno, NV.
47. Zhang Y. Role of autophagy in obesity-associated heart dysfunction. Wyoming INBRE meeting, May 2011.
48. Zhao H, Ceylan-Isik AF, Ren J, Sreejayan N. The role of Endothelin Receptor-1A (ETA) in Obesity Associated Cardiac Dysfunction. CHS Grand Round, April 1, 2011.

News and Others

Nick Hu successfully defended his M.Sc. degree and was awarded as the best thesis award from the College of Life Sciences, Hebei Agricultural University.

Tuerdi Subati received his PhD degree.

Yinan Hua received best graduate poster presentation award (CHS Grand Rounds). **Alex Xu**, received the UW PhD summer enhancement award, CHS student research grant, CHS/UW student travel award. **Nate Roe** received the UW-PhD summer enhancement Award for 2011.

Ceylan-Isik, Hua Y, Roe ND, Turdi S*, Xu X, Zhang Y* (*presented by Dr. Ren) had presentations at the American Heart Association Meeting in Orlando.

New arrivals, Machender Kandadi, had a baby boy Akashath and Megan had a baby girl Sherry.

Yingmei Zhang's presentations were included in the featured speaker series at the IDEa Scientific Conference in Reno, NV



Tuerdi Subati with mentor Dr. Ren.

EPSCoR Awards

Autumn Mason, Obesity, macrophage migration inhibitory factor (MIF) and cardiac hypertrophy (Advisor: Dr. Jun Ren)

Melissa Berg, Impact of ALDH-2 on high fat diet feeding-induced obesity (Advisor: Dr. Jun Ren)

Ben Pacheco, Autophagy: an ideal candidate for treating obesity-induced cardiac diseases? (Advisors: Alex Xu and Jun Ren)



One of the many CCRAM parties of the year

CCRAM Newsletter

Center for Cardiovascular Research and Alternative Medicine

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